

112

CA

Effect of low-protein diet on the course and pathogenesis
of alloxan diabetes. G. T. Pavlov. *Arkiv Patol.* 13,
No. 1, 34-43(1951).—A low-protein diet causes, in rats
with alloxan diabetes, a regular drop of hyperglycemia,
glycosuria, and polyuria. This is especially noted in
diets rich in fats. The effect does not depend on glycogen
accumulation in the liver. G. M. Kosolapoff

PAVLOV, G.T.

Dept. Pathophysiology

U S S R

Role of the liver in the pathogenesis of alterations of certain aspects of exchange of substances in experimental diabetes. G. T. Pavlov (All-Union Inst. Exptl. Endocrinol., Moscow). Dokl. Akad. Nauk SSSR, No. 5, 39-46 (1951).—In normal rabbits degeneration of liver induced by CCl_4 administration is characterized by fat accumulation in the liver, accompanied by increased content of ketone bodies in the blood. These changes are not directly related to liver glycogen content. The ratio of nonprotein N to protein in the liver (coeff. of proteolysis) is increased. The hypoglycemic response to insulin in rabbits treated with CCl_4 is increased with extensive damage to the liver and lowered with relatively slight damage. In alloxan-treated rabbits treatment with CCl_4 results in decrease of sugar and increase in ketone body content of the blood, and decrease in glycosuria up to complete disappearance of sugar in the urine. These changes are accompanied by azoturia, and by increase in fat accumulation in the liver and in the coeff. of proteolysis. No characteristic changes in glycogen content were noted. The hypothesis is advanced that lowering of sugar in the blood in exptl. diabetes during liver damage is a result of lowered glycogenesis from protein. J. A. Stekol

PAVLOV, G.T.

Effect of splenectomy on the course and certain pathochemical peculiarities of experimental diabetes. Arkh. pat., Moskva 14 no.3; 18-22 May-June 1952. (GLML 23:2)

1. Of the Department of Pathophysiology (Head -- Prof. S. M. Leytes), All-Union Institute of Experimental Endocrinology (Director -- Honored Worker in Science Prof. N. A. Shereshevskiy).

PAVLOV G.T.

LEYTES, S.M.; PAVLOV, G.T.

Conditioned reaction to hypoglycemic effect of insulin in experimental diabetes. Zhur. vys. nerv. deiat. 4 no.2:234-244 Mr-Ap '54.
(MLRA 7:10)

1. Otdel patofiziologii Vsesoyuznogo instituta eksperimental'noy endokrinologii.

(DIABETES, MELLITUS, experimental,
eff. of insulin, conditioned reaction to hypoglycemic action)

(INSULIN, effects,
on exper. diabetes mellitus, conditioned reaction to hypoglycemic action)

(REFLEX, CONDITIONED,
conditioned reaction to hypoglycemic eff. of insulin in diabetes mellitus)

FD-2462

USSR/Medicine - Physiology

Card 1/1 Pub 33-13/2⁴

Author : Leytes, S. M.; Pavlov, G. T.; Yakusheva, T. S.

Title : The role of the central nervous system in the regulation of glycemia in normal and diabetic animals in repeated intravenous administration of glucose.

Periodical : Fiziol. zhur. ⁴⁴ 2, 249-256, Mar-Apr 1955

Abstract : Repeated injection of glucose in dogs during hyperglycemia produced by a preceding glucose administration produces a smaller increase of blood sugar than the first dose and this is true also for dogs with alloxan diabetes. Adrenalin (0.5 cc 1:1000) injected during the peak of hyperglycemia resulting from a preceding glucose administration, does not produce any further increase of blood sugar. The response to repeated glucose injection is not changed during amytal or ether anesthesia. From this it is concluded that the center for blood sugar regulation is located in the lower part of the C.N.S., probably in the medulla oblongata. Tables. Ten references, all USSR and all since 1940.

Institution: Department of Pathophysiology of the All-Union Institute of Experimental Endocrinology, Moscow

Submitted : October 2, 1952

PAVLOV, G.T. (Moskva)

Reliability of Goldstein's method. Probl.endok.i gorm. no.1:
63-66 '62.
(MIRA 15:8)

1. Iz Vsesovuznogo instituta eksperimental'noy endokrionologii
(dir. - prof. Ye.A. Visyukova).
(FAT METABOLISM)

PAVLOV, G.T. (Moskva)

Reliability of Goldstein's method. Probl. endok. i gorm. no.1:
63-66 '62. (MIRA 15:2)

1, Iz Vsesovuznogo instituta eksperimental'noy endokrionologii
(dir. - prof. Ye.A. Visyukova).
(FAT METABOLISM)

LEYTES, S.M.; PAVLOV, G.T.; RABKINA, A.Ye.

Effect of the somatotropic hormone of the pituitary gland on the development of experimental diabetes in rats and the incorporation of methionine-S³⁵ into proteins. Arkh. pat. 22 no. 12:42-51 '60.

(MIRA 14:1)

(DIABETES) (PITUITARY BODY—SECRECTIONS)
(METHIONINE) (PROTEINS)

LEYTES, S.M.; PAVLOV, G.T.

Effect of the adrenocorticotropic hormone and cortisone on the inclusion of S^{35} -methionine into proteins of the liver, muscles, and kidneys in alloxan diabetes. Vop.med.khim. 5 no.6:415-421 N-D '59.

(MIRA 13:3)

1. Otdel patologicheskoy fiziologii Vsesoyuznogo instituta eksperimental'noy endokrinologii, Moskva.

(CORTICOTROPIN pharmacol.)
(DIABETES MELLITUS exper.)
(CORTISONE pharmacol.)
(LIVER metab.)
(MUSCLES metab.)
(KIDNEYS metab.)
(PROTEINS metab.)
(METHIONINE metab.)

..

LEYTES, S.M., PAVLOV, G.T.

~~E~~ffects of the adrenocorticotropic and somatotropic hormones of the hypophysis and of cortisone on certain aspects of nitrogen metabolism in experimental toxic hepatitis [with summary in English]. Biul. eksp.biol. i med. 46 no.8:48-53 Ag '58 (MIRA 11:10)

1. Iz otdela patofiziologii (zav. - prof. S.M. Leytes) Vsesoyuznogo instituta eksperimental'noy endokrinologii (dir. - prof. Ye.A. Vasyukova). Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim (HEPATITIS, metab.

nitrogen, eff. of ACTH, cortisone & somatotropin in toxic hepatitis in rats (Rus))

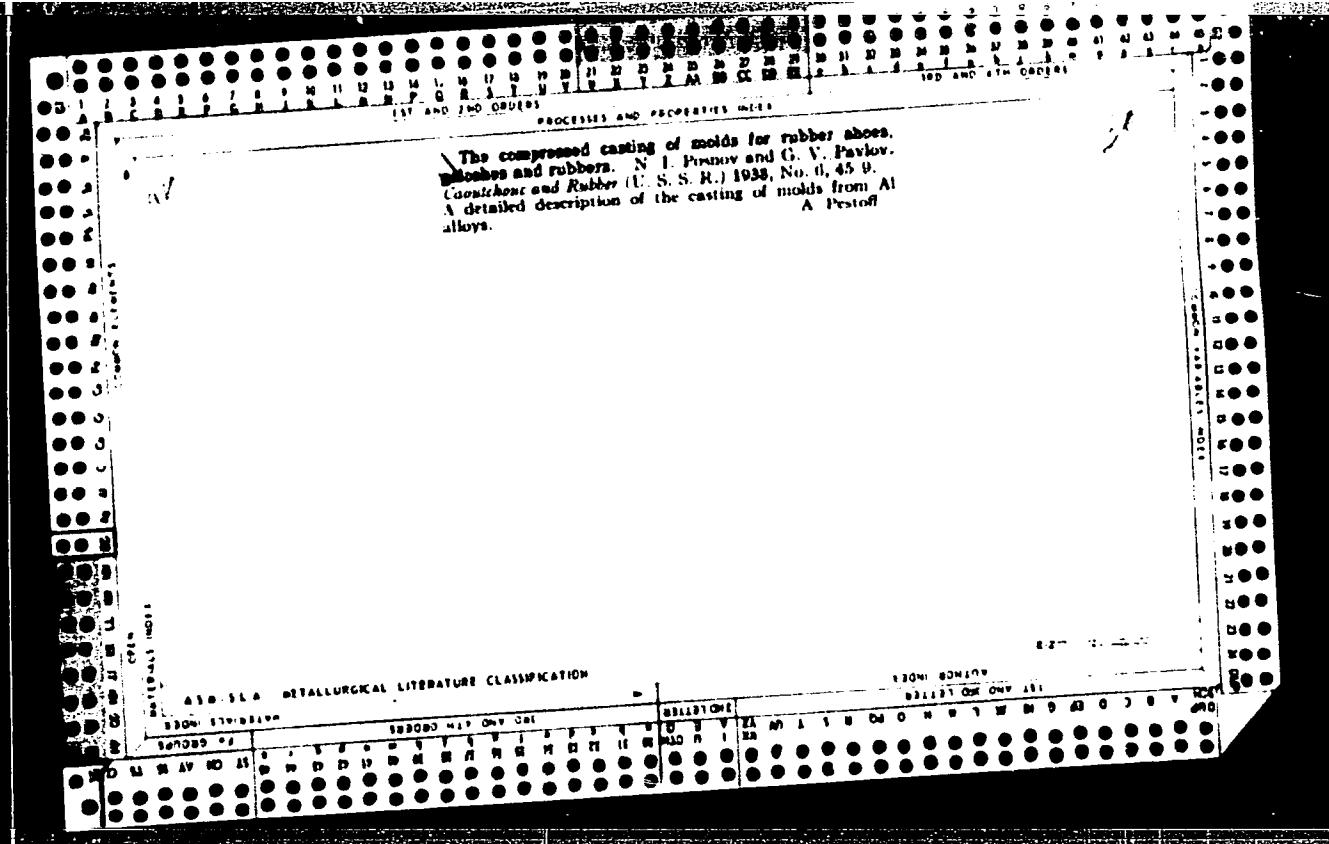
(NITROGEN, metab.
eff. of ACTH, cortisone & somatotropin in exper.

toxic hepatitis in rats (Rus))

(ACTH, eff.
on nitrogen metab. in exper. toxic hepatitis in rats (Rus))

(CORTISONE, eff.
same (Rus))

(SOMATOTROPIN, eff.
same (Rus))



PAVLOV, I., mayor

Great force of competition. Tyl i snab.Sov.Voor.Sil 21 no.3:
30-34 Mr '61. (MIRA 14:6)
(Airplanes--Maintenance and repair)

CA PAVLOV, I.

The recovery of silver from photographic wastes. I
Ivanov, Pavlov. Proceedings 1949, No. 3, 10-17. Chem.
Zhurn. 1949, 21(9). - The following processes for the recovery
of Ag are discussed: (1) treatment with Na₂S and NaOH,
(2) reduction with Fe wire or turnings, (3) decompositon at
high temp., and (4) electrolysis with a Cu anode and a Cr-Ni
cathode. Various methods of increasing the yield of Ag are
discussed. M. G. Moiseyev

LEYTES, S. M., TAVERIN, O. I., TARAKANOV, A. I.

"The Effect of Somatotropic Hormone of the Hypophysis on the Development of Experimental Diabetes in Rats and the Uptake of Methionine-S³⁵ in Proteins."

Theses of the Proceedings of the Annual Scientific Sessions 23-26 March 1959
(All-Union Institute of Experimental Endocrinology)

From the Department of Pathological Physiology (Head--Professor S. M. Leytes)
and the Department of Morphology (Head--Professor Ye. I. Tarakanov) of the All-Union Institute of Experimental Endocrinology (Director--Professor Ye. A. Vasyukova)

"The Effect of Somatotropic Hormone on Certain Aspects of Nitrogen Metabolism in Young and Old Rats in a State of "Stress" Produced by Cooling."

Theses of the Proceedings of the Annual Scientific Sessions 23-26 March 1959
(All-Union Institute of Experimental Endocrinology)

From the Department of Pathophysiology (Head--Professor S. M. Leytes) of the All-Union Institute of Experimental Endocrinology (Director--Professor Ye. A. Vasukova)

REZNIK, I.Ye., kand. voyennykh nauk, polkovnik, voyennyy letchik pervogo klassa; VORONOV, V.M., kapitan, voyennyy shturman pervogo klassa; STEPANEV, V.S., kapitan, voyennyy shturman pervogo klassa; VOLKOV, V.S., mayor, voyennyy shturman pervogo klassa; PAVLOV, G.V., polkovnik, voyennyy letchik pervogo klassa; DANILKO, S.Y., podpolkovnik, voyennyy shturman pervogo klassa

It is very important to improve the tactical training of flight personnel. Mor. sbor. 48 no.6:44-53 Je '65.

(MIRA 18:6)

BUVALKINA, L.A.; PAVLOV, G.V.; PRUSSAKOVA, Z.P.; SOKOL'SKIY, D.V.

Dehydroisomerization of the industrial fraction of n-butane on
oxide catalysts. Trudy Inst.khim.nauk AN Kazakh.SSR 5:64-71
'59. (MIRA 13:6)

(Butane)
(Catalysts)

PAVLOV, G.V., podpolkovnik, voyennyy letchik pervogo klassa

D'viding one's attention during instrument flight. Mor.sbor.
46 no.5:54-57 My '63. (MIRA 16:4)
(Instrument flying)

PAVLOV, G.V., podpolkovnik, voyennyy letchik 1-go klassa

Training flyers for instruction work. Mor. sbor. 46 no.8:64-
67 Ag '63. (MIRA 16:10)

(Flight training)

PAVLOV, G.V., podpolkovnik, voyennyy letchik 1-go klassa

Using more widely data of pedagogy and psychology in
flight training. Mor. sbor. 47 no.10:47-54 O '64.
(MIRA 18:11)

BUVALKINA, L.A.; PAVLOV, G.V.; SOKOLSKIY, D.V.

Dehydroisomerization of n-butane on mixed chromium catalysts.
Izv.vys.ucheb.zav.; khim.i khim.tekh. 2 no.6:930-937 '59.
(MIRA 13:4)

1. Kazakhskiy gosudarstvennyy universitet imeni S.M.Kirova.
(Butane)

5.3200

5.1190

5(7)

AUTHORS:

Buvalkina, L.A., Pavlov, G.V.,
Sokol'skiy, D.V.

f:84

S/153/59/002/06/022/029
B115/B000

TITLE:

The Dehydroisomerization of n-Butane on Mixed Chromous
Catalysts

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya
tekhnologiya, 1959, Vol 2, Nr 6, pp 930-937 (USSR)

ABSTRACT:

The present paper deals with the possibility of simultaneous hydrogenation and isomerization of n-butane in the presence of a number of oxide catalysts. This reaction is very important in the production of high-octane components for motor fuels as well as of synthetic rubber. Cr₂O₃ - Al₂O₃, an aluminosilicate catalyst worked-up by cracking, Cr₂O₃ on worked-up aluminosilicate, and Cr₂O₃ on silica gel were used as catalysts for the dehydroisomerization of n-butane. Experiments were made in a unit with continuous flow, and the initial raw materials and reaction products were analyzed in a Pobril'nyak apparatus. The industrial n-butane fraction contained, in addition to n-butane (about 70 to 85%), also butene (5% at most), isobutane, and n-pentane (20% and more). About 150 experiments were

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The Dehydroisomerization of n-Butane on
Mixed Chromous Catalysts

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S/153/59/002/06/022/029
B115/B000

made with the catalysts mentioned, where the temperatures (from 500 to 700°) and the rates of flow (from 100 to 2,000 cm³ per minute per 100 cm³ of the catalyst) were varied. The catalyst was recovered by air at 500°. The yields of end products (butene and isobutane) were related to the quantity of n-butane reacted and passed, and to the raw material passed (sum of n-butane and pentanes). The results of an experiment and the calculation of the material balance for dehydroisomerization are given (Table 1) as well as conditions of catalytic isomerization and dehydrogenation of n-butane giving maximum yields of isobutane and butene (Table 2). This happened when the sum of isobutane and butene was 37.4%, the rate of flow of the raw material 700 cm³ per minute, and the temperature 580°. When a catalyst consisting of worked-up aluminasilicate was used, the total yield of isobutane and butene was, for a rate of flow of the raw material of 200 cm³ per minute and a temperature of 600°, 26.1% (Table 3). When Cr₂O₃ on worked-up aluminosilicate was used, the total yield of isobutane and butene was, for 1,000 cm³ per minute and 570°, 32.2% (Table 4), and, finally, when Cr₂O₃ on silica gel was used, at 600 cm³ per

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The Dehydroisomerization of n-Butane on
Mixed Chromous Catalysts

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S/153/59/002/06/022/029
B115/B000

minute and 600°, the total yield of isobutane and butene was 56.6% (Table 5). In table 6, the dehydrogenation and isomerizing characteristics of the groups of oxide catalysts are compared. It is shown that, at a low n-butane content (58.6%) in the raw material, isobutane and butene may form on Cr₂O₃ on aluminosilicate at the expense of the conversion of pentanes. The presence of more than 5% isobutane and pentene in the raw material reduces the yields of these compounds on the dehydroisomerization of industrial n-butane fractions; if Cr₂O₃ on aluminosilicate is used. At temperatures above 700°, b-butane is simultaneously pyrolyzed on the dehydroisomerization catalysts to give C₁ to C₃ hydrocarbons. When passed over the catalysts investigated, 50 to 70% of n-butane is converted. The low quantity of liberated hydrogen (2%, at most) is explained by its consumption to reduce chromic oxide to lower oxides which is not in disagreement with the results obtained by Obolentsev (Ref 5), Balandin, Zelenskiy and others (Ref 8). This paper was lectured on the All-Union Conference on "Methods Used to Synthesize Initial Products for the Preparation of

Card 3/4

The Dehydroisomerization of n-Butane on
Mixed Chromous Catalysts

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S/153/59/002/06/022/029
B115/B000

High Polymers (Vsesoyuznaya konferentsiya "Puti sinteza
iskhodnykh produktov dlya polucheniya vysokopolimerov") held
in Yaroslavl' from September 29 to October 2, 1958. The ⁴
student Z.F.Prusakova took part in the experiments. There
are 6 tables and 14 references, 12 of which are Soviet.

ASSOCIATION: Kazakhskiy gosudarstvennyy universitet imeni S.M.Kirova
(Kazakhskiy State University imeni S.M.Kirov)

Card 4/4

DUBININ, A. (Moskva); ANDREYEV, B. (Leningrad); ADESTOV, G. (Gor'kiy);
PAVLOV, I. (Moskovskaya obl., st. TSaritsyno); MENBAYEV, E.
(Leningrad); SUKHININ, V. (Moskva); ATAMANOV, N. (Moskovskaya
obl.)

Advices of experienced people. Za rul. 20 no. 5:18-19 My '62.
(MIRA 16:4)

(Motor vehicles)

PAVLOV, I., doktor sel'skokhoz. nauk

Forecasting of some pests. Zashch. rast. i vred. i bel. 10
no.7:42-43 '65. (MIRA 18:10)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva
tsentral'no-chernozemnoy polosy imeni V.V. Tokuchayeva.

PAVLOV, I., mayor

Service is pronounced excellent. Tyl i snab. Sov. Voor. Sil
21 no.11:31-35 N '61. (MIRA 15:1)
(Russia--Air force--Fuel)

PAVLOV, I; DIMTRIEV, V.

PAVLOV, I; DIMTRIEV, V. Airports in Moscow. p. 15.
Letter from a woman pilot. p. 18.

Vol. 1, no. 11, Nov. 1955

ARIPILE PATRIEI

TECHNOLOGY

Bucuresti, Romania

So: Eastern European Accession vol. 5 No. 4 April 1956

PAVLOV, I.

AID - P-28

Subject : USSR/Aeronautics
Card : 1/1
Author : Pavlov, I., Captain
Title : Possibility of Use of a Closed Aerial
Periodical : Vest. vozd. flota, 2, 37 - 39, February 1954
Abstract : The author explains how to determine the position of an aircraft whose outside aerial is lost or out of order. He gives methods of determination of the course angle of radio range station (KUR), by means of the receiver DGMK-3 and a closed aerial. He discusses several cases of course angle determination and gives some numerical values.
Institution : None
Submitted : No date

PAVLOV, I.

42559. Ob Uluchshenii Metodov Regulirovaniya Vagonnykh Parkov. Zh-D Transport, 1948,
No. 11, S. 55-59.

PAVLOV, I.

The young collector of eggs rewarded. p. 18 (NARODNA KOOPERATIJA, No. 1 Jan. 1952
Sofyia)

SC: MONTHLY LIST OF EAST EUROPEAN ASSOCIATES, Vol 2 "8 Library of Congress, August 1954,
Uncl.

PAVLOV. I

Three of the first leading egg collectors, p. 19. They tell of their experiences. pl.20
Let us learn to trade as they do. pl 23.

(NARODNA KOOPERATSIIA. NO.1 Jan. 1952 Sofyia)

SO: Monthly List f East European Accessories, Vol. 2 Library of Congress, August 1954,
Vol #8 Uncl.

SIZOV, A.N.; PAVLOV, I.A.

Electric Motors - Repairing

Equipment for disassembling and assembling electric motors. Rab. energ. 2 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952 [1953], Uncl.

PAVLOV, I. A.

nuclear Sci Abs v8

1-31-54

mineralogy, metallurgy ✓
+ ceramics

566

ON THE NATURE OF VISCOS DESTRUCTION OF
METALS. ✓ A. Pavlov. Translated from Doklady Akad.

Nauk S.S.R. 1959, 233-8(1959). 3p. (NSF-tr-100)

A study of the change in the properties of metal under
plastic deformation by determining the relation between
the impact toughness and the magnitude of the preliminary
plastic tensile deformation is reported. (J.A.G.)

①

1A 10174

USSR/Biology - Beetle, Snout
Insectology

May/Jun 49

"Poppy-Root Snout Beetle (Stenocarus Fulliginosus March.)", I. F. Pavlov, All-Union Inst of Medicinal Plants, 10 pp

"Zool Zhur" No 3

Discusses problems of subject beetle based on data compiled during 1937-38 at Voronezh Zonal Sta. Covers biology and developmental cycle of beetle, fundamentals of biology of larva, effect of external conditions on reproduction of beetle, characteristics of injury to poppy and its

151M2

USSR/Biology - Beetle, Snout (Contd) May/Jun 49

agricultural importance, relation of infestation of field poppies by larva and eggs and their resistance from plants, resistance of different species to beetles, importance of thinning time, and chemical measures for controlling beetles. Finds cal-cium arsenate most effective control measure. Includes 11 tables of data.

151M2

1. PAVLOV, I. F.
2. USSR (600)
4. Insecticides
7. Stem moth and measures of combatting it. Sel. i sem. 19, no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

PAYLOV

PAVLOV, I.P., kandidat biologicheeskikh nauk

Striped grain flea beetle Phyllotreta vittula Redt. in rice seeds.
(MIRA 8:11)
Priroda 44 no.9:121 S '55.

1. Institut zemledeliya TSentral'no-chernozemnoy polosy imeni V.V.Do-
kuchayeva
(Flea-beetles) (Rice--Diseases and pests)

USSR / General and Special Zoology. Insects. Harmful P
Insects and Arachnids. Pests of Grain Crops.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 54022.

Author : Pavlov, I. F.

Inst : Not given.

Title : The Control of Hessen and Swedish Flies by
Various Methods of Autumn Plowing.

Orig Pub: Zashchita rast. ot vredit. i bolezney, 1957,
No 4, 29-30.

Abstract: Three methods of autumn plowing for the Central
Chernozem belt are recommended: (1) shallow-
plowing of stubble simultaneously with harvest-
ing the grains and plowing in the stubble 10-15
days after the windfall appears; (2) plowing
immediately after harvesting (without shallow
plowing of the stubble) and destruction of the

Card 1/2

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COUNTRY : USSR
CATEGORY : Cultivated Plants. Cereals. M

PERIOD : 1958, No. 14, p. 6304.

AUTHOR : Pavlov, I. F.

INST. : Institute of Agriculture imeni Dokuchayev

TITLE : On the Resistance of Hard Wheat to Hessian Fly.

ORG. PUB. : Seleksiya and Semenovodstvo, 1957, No. 6, 66-67

TEXT : Preservation of the resistance of hard wheat Melyanopus 69 to infestation by Hessian fly when cultivated for a long time in one region was studied at the Institute of Agriculture imeni Dokuchayev under the conditions of Voronezh. Hard wheat varieties Melyanopus and Gordeiforme 10 retain the resistance after their continuous cultivation even under the conditions of a mass spreading of the pest. An enlargement of the sowings of varieties resistant to this pest leads to a lowering of their number and a decrease in the infestation of the sowings of the spring soft and winter wheat. -- A. F. Khlystova

Card: 1/1

USSR/Zooparasitology. Ticks and Insects--Vectors of G
Causative Agents of Diseases

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57957

Author : Pavlov I. F., Kozhevnikova L. M.

Inst : Not given

Title : The role of the Swedish Fly in the Dissemination of Vesicular Rust

Orig Pub : Kukuruza, 1957, No 7, 44-45

Abstract : Twelve to 73% of corn plants in Voronezh Oblast were injured by the Swedish fly, according to data obtained by the Scientific-Research Institute of Agriculture imeni Dokuchayev. The plants injured by the fly in 1955 became rust infected with an intensity 3 times greater than the noninjured plants; in 1956--with an intensity 13 to 19 times greater than the noninjured

Card 1/2

USSR/Zooparasitology. Ticks and Insects--Vectors of Causative Agents of Diseases G

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57945

Abstract : respectively were 0.13, 1.0, and 1.5 g/m². The gnats were completely exterminated 2 hours after the beginning of the laboratory experiment; anopheles maculipennis--within 3 to 4 hours; Culex modestus--within 3 to 5 hours; Aedes vexans--5 to 10 hours; Chrysops gadflies--within 20 and more hours. In field experiments a 53% of DDT paste remained active for 18 days in the Volga delta, and for 37 days in the Klyazma river basin; a 40% DDT paste in the OP-23 vehicle and chlorothen+DDT and chlorothen for 10 to 14 days. It is recommended that a DDT paste (at an expenditure of 1 g/m² of DDT, at chlorothen+DDT and chlorothen at an expenditure of 1.5g/m²) spread in the areas of the greatest accumulation of the sanguivorous diptera be used for the control of the insects.

Card 2/2

USSR/Zooparasitology. Ticks and Insects--Vectors of
Causative Agents of Diseases

G

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57957

Absract : plants. Chains of small swollen rust formed on
the leaves and larger stems in the paths of
the larvae. It is possible that the damage done
to corn by lice, cicada, and other pests cont-
ribute to the development of rust in corn. To
prevent the severe infection of corn by rust
in the early period of the development of the
plant it is necessary to destroy the pests.

Card 2/2

13

PAVLOV, I.F.

Role of different grass species in the reproduction of the frit fly
(Oscinosoma) [with summary in English]. Zool. zhur 37 no.8:1175-1180
Ag '58. (MIRA 11:9)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva TSentral'no-
Chernozemnoy polosy, Talovaya Voronezhskaya oblast'.
(Frit flies)
(Grasses--Diseases and pests)

PAVLOV, I.P.

Viability of larvae and number of generations in hessian flies.
Zool zhur. 37 no.12:1831-1841 D '58. \ (MIR 12:1)

1. Research Institute of Agriculture of Central Chernozem Belt
(Station Talovaya, South-Eastern Railway).
(Hessian flies)

PAVLOV, I. F.: Doc Biol Sci (diss) -- "The ecology of the basic species of 'crypto-stalk' pests of bread grains and the principles of measures to combat them". Khar'kov, 1959. 32 pp (Min Higher Educ Ukr SSR, Khar'kov Univ of Labor Red Banner State U im A. M. Gor'kiy), 150 copies (Kl., No 12, 1959, 127)

PAVLOV, I.F.

Changes in the numbers of frit flies and Hessian flies as influenced by forest shelterbelts, irrigation, and perennial grasses [with summary in English]. Ent. oboz. 38 no.2:326-340 '59. (MIRA 12:7)

1. Nauchno-issledovatel'skiy institut im. V.V. Dokuchayeva, st. Talovaya.
(Frit flies) (Hessian flies)

PAVLOV, I. F., Doc Agr Sci, "ECOLOGY OF PRINCIPAL SPECIES
OF CRYPTOCauline PESTS OF CEREAL GRAINS AND THEIR CONTROL
UNDER CONDITIONS OF THE CHERNOZEM BELT." MOSCOW, 1961.
(MOSCOW ORDER OF LENIN AGR ACAD IM K. A. TIMIRYAZEV). (KL,
3-61, 224).

308

PAVLOV, I.F.

Ecology of grain beetles (Coleoptera, Chrysomelidae, Halticinae)
and measures for their control. Ent. oboz. 39 no.4:775-795 '60.

(Flea beetles) (Grain--Disease and pests) (MIRA 14:3)

PAVLOV, I.F., doktor sel'skokhoz. nauk

The anthomyiid fly Phorbia secunda as a wheat pest. Zemstv. nauch.
ot vred. i bol. 9 no.7:16 '64. (MIRA 18/)

i. Institut sel'skogo khozyaystva TSentral'no-chernozemskogo
oblasti imeni V.V. Dokuchayeva, Talovaya, Voronezhskoy oblasti.

PAVLOV, I.F., inzh.; URMANOV, R.N., kand. tekhn. nauk, doisen.

Transformer with a smooth contactless regulation of voltage
under load conditions. Trudy Ural. elektromekh. inst. inzh. zhel.
dor. transp. no.5:34-43 '62. (MIRA 17:8)

PAVLOV, I.F., doktor sel'skokhoz. nauk

For the efficient use of poisonous chemicals. Zashch. naust,
ot vred. i bol. 8 no.10,1-2 0 '63. (MIRA 17:6)

I. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva
imeni Dokuchayeva, Tolvaya, Voronezhskoy oblasti.

PAVLOV, I.F., doktor sel'skokhoz.nauk

About I. D. Shapiro's book. Zashch. rast. ot vred. i bol. 2 no.7:
62 Jl '63. (MIRA 16:9)

I. Institut sel skogo khozyaystva TSentral'noy chernozemnoy polosy
imeni V.V.Dokuchayeva.

URMANOV, Rifat Nurovich, kand. tekhn. nauk, dotsent; PAVLOV, Ivan
Fedorovich, assistant

Special features of the sequential operation of transformers
with counter connected windings. Izv. vys. ucheb. zav.; elektro-
mekh. 7 no.7:828-836 '64. (MIRA 18:5)

1. Zaveduyushchiy kafedroy elektricheskikh mashin Ural'skogo
elektromekhanicheskogo instituta inzhenerov zheleznodorozhного
transporta (for Urmanov). 2. Kafedra elektricheskikh mashin
Ural'skogo elektromekhanicheskogo instituta inzhenerov zheleznodoro-
zhnogo transporta (for Pavlov).

PAVLOV, I.F.

Ecology of *Ochsenheimeria vaculella* F.-R. (Lepidoptera,
Tineoidea). Ent. oboz. 40 no.4:818-827 '61. (MIRA 17:1)

PAVLOV, I.F., doktor sel'skokhoz.nauk

Prevent mass multiplication of the Hessian fly. Zashch. rast. ot
vred. i bol. 8 no.8:21-22 Ag '63. (MIRA 16:10)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva
TSentral'no-chernozemnoy polosy imeni V.V.Dokuchayeva.

PAVLOV, I.F.; LYAKHOVA, V.T., ILYUSHCHENKO, V.N., agronom po zashchite
rasteniy (Uzhgorod)

Readers' letters. Zashch. rast. ot vred. i bol. 8 no.4:14
Ap '63. (MIRA 16:10)

1. Zaveduyushchaya laboratoriyye zashchity rasteniy Lipetskoy
sel'skokhozyaystvennoy optytnoy stantsii (for Lyakhova).
(Plants, Protection of)

PAVLOV, I.F., kand.biolog.nauk

Methods for determining the degree of damage to field crops caused by grain flies. Zashch. rast. ot vred. i bol. 4 no.5:42 S-0 '59. (MIRA 16:1)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva TSentral'noy chernozemnoy polosy im. V.V.Dokuchayeva. (Field crops--Diseases and pests) (Fruit flies)

PAVLOV, I.F., kand.biolog.nauk

Duration of the development and causes of the destruction of
the larvae of the Swedish fly in summer. Zashch.rast.ot vred.1
bol. 5 no.7:38-39 Jl '60. (MIRA 16:1)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva
TSentral'noy chernozemnoy polosy imeni V.V.Dokuchayeva,
Voronezhskaya obl.
(Grain--Diseases and pests) (Frit flies)

PAVLOV, I.F., kand.biolog.nauk; LEREDEVA, K.K., nauchnyy sotrudnik;
AVRAMENKO, A.I., starshiy tekhnik

Methods for protecting grain crops. Zashch. rast. ot vred.
i bol. 7 no.7:22-24 Jl '62. (MIRA 15:11)

..(Central Black Earth Region--Grain--Diseases and pests)
(Central Black Earth Region--Plants, Protection of)

URMANOV, R.N., kand.tekhn.nauk, dotsent; PAVLOV, I.F., inzh.

Calculation of the operation and features of the series operation of
electric transformers. Elektrichestvo no.11:29-35 p. 61.
(MIRA 14:11)

1. Ural'skiy elektromekhanicheskiy institut inzhenerov zheleznodo-
rozhnogo transporta.

(Electric transformers)

KORYAGIN, N.I.; PAVLOV, I.G.

Analyzing the conditions of gripping during the rolling of a
multilayer flat pack with a stepped front end. TSvet.met. 38
no. 3:76-80 Mr '65.

(MIRA 18:6)

UNKSOV, V.A.; BOROVIKOV, P.P.; RUNDKVIST, D.V.; PAVLOVA, I.G.;
ALYAVDIN, V.F.; VOLOSTNYKH, G.T.; ROZINOV, M.I.; SHCHEGLOV, A.D.;
IVANOVA, A.A.; KORMILITSYN, V.S.; SHCHEGLOV, A.D.; ARTEMOV, V.R.;
RYTSK, Yu.Ye.; GINZBURG, A.I.; DORTMAN, N.B.; TOPORETS, S.A.;
TRUNINA, V.Ya.; YAKOVLEV, I.K.; BOGDANOVA, L.A.; SARBEYEVA, L.M.

Problems of the geology and characteristics of the distribution
of mineral deposits. [Trudy] VSEGEI 92:53-89 '63. (MIRA 17:4)

KORNOUKHOV, Nikolay Vasil'yevich, akademik; BELYANKIN, F.P., akademik, otv. red.; STREL'BITSKAYA, A.I., doktor tekhn. nauk; AMIRO, I.Ya., kand. tekhn. nauk, red.; DLUGACH, M.I., kandi. tekhn. red.; YEREMENKO, V.S., kand. tekhn. nauk, red.; NIKITIN, Yu.P., kand. tekhn. nauk, red.; PAVLOV, I.G., kand. tekhn. nauk, red.; POLYAKOV, P.S., kand. tekhn. nauk, red.; KIYANITSA-GUSLISTAYA, N.N., mlad. nauchn. sotr., red.; ORLIK, Ye.L., red.; LISOVETS, A.M., tekhn. red.

[Selected works on structural mechanics] Izbrannye trudy po stroitel'noi mekhanike. Kiev, Izd-vo AN Ukr.SSR, 1963. 321 p.
(MIRA 17:2)

1. Akademiya nauk Ukr.SSR (for Kornoukhov, Belyankin).

PAVLOV, I.G.

We raise the reliability of machines. Zhil.-kom. khoz.
ll no.9:6 S '61. (MIRA 14:11)

1. Direktor Moskovskogo eksperimental'nogo mashinostroitel'nogo
zavoda "Kommunal'nik".
(Moscow--Machinery industry)

PAVLOV, I.G. [Pavlov, I.H.] (Kiyev)

Basic variational formula and its application to problems in the
dynamics of thin-walled rods with open profile. Prykl. mekh. 7
no.5: 530-537 '61. (MIRA 14 10)

1. Kiyevskiy inzhenernostroitel'nyy institut.
(Elastic rods and wires) (Functional analysis)

YEREMENKO, V.S. [IEremenko, V.S.] (Kiyev); OBREMSKIY, S.V. [Obrems'kyi]
(Kiyev); PAVLOV, I.G. [Pavlov, I.H.] (Kiyev)

Design of a folded cyclically symmetric prismatic shell. Prykl.
mekh. 9 no.5:561-564 '63. (MIRA 16:10)

1. Kiyevskiy inzhenerno-stroitel'nyy institut.

29229

24.4200

103.127, 2607

S/198/61/007/005/U09/015
D274/D303

AUTHOR: Pavlov, I.G. (Kyyiv)

TITLE: Basic variational formula as applied to the dynamics
of thin-walled beams of open profile

PERIODICAL: Prykladna mekhanika, v. 7, no. 5, 1961, 530 - 557

TEXT: The author proposes a variational formula for computations
of thin-walled beams. This method followed M.V. Kornoykhov's idea
(Ref. 3: Prochnost' i ustoychivost' sterzhnevykh sistem (Strength
and Stability of Beam Systems), Stroyizdat, 1949). The formula in-
volves the direct application of the principle of virtual displace-
ments. In its derivation, the basic assumptions of modern theory
of beams were adopted. The variational formula is of a suffi-
ciently general character and it provides for the degree of accuracy re-
quired in practice. The proposed computational method differs from
other approximate methods, in particular from B.G. Galerkin's me-
thod; the new method is convenient for setting up the differential
equations of dynamical equilibrium, and for choosing the functions X

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D274/D303

Basic variational formula as ...

which satisfy the boundary conditions. In using the basic variational formula, it is sufficient to choose the functions which satisfy the static conditions only. The formula is of a general character, inasmuch as it permits solving many dynamical problems, relating to stability, transient processes, free- and forced oscillations of thick- and thin beams of open profile. The considered beam is subjected to the loads $q(x, t)$, $r(x, t)$, m , m_z , $Q(a, t)$, $R(a, t)$, N , M , K , B , and to the forces of inertia q_j , r_j , Q_j and R_j .

Proceeding from the principle of virtual displacements and taking into account the peculiarities of its application to beams, the basic variational formula for calculating free- and forced oscillations of a thin beam are:

$$\begin{aligned}
 & EF \int e \bar{e} dx + EI_c \int V' \bar{V}' dx + EI_y \int W' \bar{W}' dx + \\
 & + EI_\omega \int \theta'' \bar{\theta}'' dx + \int \theta'' \bar{\theta}'' [GI_d - (Nr_0^2 + 2\beta_v L_c - 2\beta_s M_c + 2\beta_\omega B)] dx = \quad (3) \\
 & = \int (m_y - ne_{xz}) \bar{W}' dx - \int \Delta M \bar{W}' dx - \int (m_s + ne_{xy}) \bar{V} dx + \\
 & + \int \Delta L \bar{V}' dx - \int [k + q(a_y - e_{xy}) - r(a_z - e_{xz})] \bar{\theta} dx +
 \end{aligned}$$

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S/198/61/007/005/009/015
D274/D302

Basic variational formula as ...

$$\begin{aligned}
 & + \int \Delta K \bar{\theta} dx + \int (q \bar{W} + r \bar{V}) dx + \int \Delta N \bar{e} dx + \sum (M_a - N_a e_{ax}) \bar{W}'_a - \\
 & - (L_a + N_a e_{ay}) \bar{V}' - K_a \bar{\theta}_a + B_a \bar{\theta}'_a - N_a \bar{U}_a + \sum Q_a \bar{W}'_a - \\
 & - (a_y - e_{ay}) \bar{\theta}_a + \sum R_a [\bar{V}_a + (a_z - e_{az}) \bar{\theta}_a] + N \bar{U}'_0 + Q \bar{W}'_0 - \\
 & - R \bar{V}'_0 - M_c \bar{W}'_0 + L_c \bar{V}'_0 + K_A \bar{\theta}'_0 - B_a \bar{\theta}'_0 + \int (q \bar{W} + \\
 & + r \bar{V}) dx + \sum [Q_a \bar{W}_a + R_a \bar{V}_a] - \frac{\gamma F}{g} \int [(\ddot{W} - a_y \ddot{\theta}) W + \\
 & + (\dot{V} + a_z \dot{\theta}) \bar{V}] dx + K_{IA} \bar{\theta}. \quad (3)
 \end{aligned}$$

where M_c , L_c are the bending moments with respect to the principal axes of inertia of the cross section, K_A is the torque with respect to the X_A - axis, and N is a longitudinal force. Formula (3) applies to the general case; in particular cases it is considerab-

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D274/D303

Basic variational formula as ...

ly simplified. In computing the natural oscillations of centrally-compressed beams, formula (1) becomes:

$$\begin{aligned}
 & EI_y \int W''W'' dx + EI_z \int V''\bar{V}'' dx + EI_\omega \int \theta''\bar{\theta}'' dx + \\
 & + \int (GI_d - Nr_0^2) \theta' \bar{\theta}' dx = \int (q_I \bar{V} + r_I \bar{W}) dx + \sum (Q_{Ia} \bar{V}_a + \\
 & + R_{Ia} \bar{W}) - \frac{\gamma F}{g} \int [(W - a_y \theta) \bar{W} + (V + a_z \theta) \bar{V}] dx + K_{IA} \bar{\theta} + \\
 & + \int \Delta L \bar{V}'' dx - \int \Delta M \bar{W}'' dx + \int \Delta K_A \bar{\theta}' dx. \tag{9}
 \end{aligned}$$

X

The method is illustrated by two examples. In the first example, the frequency of the natural bending-flexural oscillations of a centrally-compressed beam are calculated. Thereby, the variational formula leads to a system of linear homogeneous equations. In the second example, it is found that the forced oscillations of the beam are nonlinear and nonconstant. The proposed method makes it possible to solve new problems of beam dynamics which are of practical

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Basic variational formula as ...

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D274/D303

tical importance. There are 4 figures and 6 Soviet-bloc references.

ASSOCIATION: Kyyiv's'kyy inzhenerno-budivel'nyy instytut (Kyyiv Construction Engineering Institute)

SUBMITTED: March 20, 1960

X

Card 5/5

PAVLOV, IG. M.,

25(1)

TABLE I WORK EXPENDITURE

07/1970

Central "Kryzhevitsky" Institute of Ferrous Metallurgy. Institute
No. 1.
Proceedings 1, symposium on rolling processes (rolling and non-rolling) Moscow,
November, 1979, 200 p. (Russian Text: Gor'kiy, 1979, 16.)
Printed and issued, 2,500 copies printed.

Sponsoring Agency: USSR Commissariat of Heavy Industry.

Mr. I. P. Matrosov, Mr. G. P. Pavlov, Dr. S. A. Tolsty, Dr. N. N. L.

Bogolyubov.

PURPOSE: This collection of articles may be of interest to scientists working
on rolling methods in rolling and non-rolling plants, and students of metal
industrial works.

CONTENTS: The articles describe work done at the Laboratory for metal forming
of the Central Scientific Research Institute of Ferrous Metallurgy. Some theoretical
(mathematical) and practical problems of hot and cold rolling of simple and intricate
articles are considered. Many of the articles discuss results
obtained under rolling conditions. Many of the articles mention
the following researchers: V. N. Antropov, P. G. Tsvetkov, A. I.
Kol'skii, R. A. Kostylev, V. N. Gerasimov, D. D. Rakhman, O. N. Pankratova,
L. A. Peshkin, N. A. Pavlov, and V. G. Smirnov are mentioned as having
contribution to this field. There are 77 references to Soviet and 4 German
publications in this field.

LIST OF CONTENTS

- Kazakov, V. I. Conditions of Technical Efficiency. Methods of
Measuring the Temperature of the Mill Surface of Steel Mills
in Rolling. (Central Scientific Research Institute of Ferrous
Metallurgy) Two methods of measuring the temperature of article
during rolling are described: 1) by stationary thermocouples (method
of resistance), which measure temperature between two points; 2) by a movable
thermocouple, which measures temperature during rolling. Reasons
for choice of methods for measuring the true temperature. Reasons
for selection of methods of rolling, the universality of ob-
taining automatically.

10

Kazakov, V. I., Engineer. Some Problems of Pass Design at

Rolls for Cold Rolling of Simple or Complex Shapes. A special

roll for rolling plates for cold rolling or complex shapes should be
designed which assures dimensional accuracy of shapes obtained.Some basic considerations for designing plates for
cold rolling.

11

Kazakov, V. I., Corresponding Member, Academy of Sciences, USSR; Doctor of

Technical Sciences, and V. I. Karyagin, Engineer. Method of Comparing
Methods of Rolling. Related to efficiency of informationabout the condition of deformation in one pass, the authors have
proposed a method of determining the condition of the workpiece
by comparing the differences between cross-sectional areas of the work-
piece before and after rolling. As a criterion for effi-ciency of deformation of rollable, the ratio of volume displaced in the longitudinal
direction to the volume displaced in the lateral direction

is used.

12

Kazakov, V. I., Engineer. Efficiency of Information During Rolling in

the Form of Comparison with Deformation in Plain Mills

The other author has found that if the condition of deformation is conducted on the basis
of cross-sectional areas, it is possible to answer the question what the criteria

of quality evaluation. He came to the conclusion that the criteria

of quality evaluation in rolling mills must be determined by the need that the deformation of a

workpiece during a given pass should be attained so that the maximum shear strain is as small

as possible, or in plain rolls.

13

Kazakov, V. I., Engineer. Design of a Diamond Plate for Diamond-shaped Presses

The author presents in the article written with Yu. N.

Bogolyubov, the relations presented in the article written with Yu. N.

Bogolyubov, the author shows how to determine the dimensions

of a diamond plate and of the rolling system.

14

Kazakov, V. I., Corresponding Member of the Russian Academy of Sciences, and A. N. Pecherskiy, Engineer.

The article discusses sizes and mechanical properties of billets

with increased outer and also the pass design necessary for making

a good product.

PAVLOV, I. G. Cand Tech Sci -- "~~stability~~ ^{Resistence} strength and vibrations of thin-walled rods of ~~an~~ open ^{shape}." Kiev, 1969 (Min of Higher Education USSR).
Kiev Construction Engineering Inst. Chair of Construction Mechanics).
(KL, 1-61, 195)

-221-

7264

PAVLOV, I.G. (Kiev)

Basic equations for combined stability and strength of thin-walled bars. Prykl.mekh.3 no.3:306-316 '57. (MIRA 10:12)

1. Kiive'kij inzhenerno-budivel'niy institut.
(Elastic rods and wires)

PAVLOV, V. V.

Dissertation: --"An Investigation of the Influence of the Temperature, Species, and Gas Concentration on the Structure of a Polymer Film." Advisor: Pilsaitis. In Institute of Applied Mathematics and Mathematical Physics, Faculty of Sci., Faculty of Sci., University of Vienna, Austria. Date: 1981. No. 11. (Bibliogr.: 1 p.)

On: 30-06-1981, 10:00:00 AM

PAVLOV, I.I.

Studying the process of drying by sublimation. Mauch. trudy MLTI
no. 9:203-212 ' 58. (MIRA 11:12)
(Drying)

PAVLOV, I.I., kand.tekhn.nauk

Pressure pulsation in a flow of a two-phase medium. Nauch.trudy
MLTI no.9:175-188 '58.
(Fluid mechanics)

(MIRA 11:12)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001239

PAVLOV, I.I., kand.tekhn.nauk

Flow structure of a two-phase mixture in pipes. Nauch.trudy
(MIRA 11:12)
MLTI no.9:189-202 '58.
(Fluid mechanics)

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012396

KRAYTSBERG, N.I., kand.tekhn.nauk; PAVLOV, I.I.

Furnace for burning wood waste. Biul.tekh.-ekon.inform.Gos.nauch.-
issl.inst.nauch.i tekhn.inform. 17 no.1:62-63 '64. (MIRA 17:2)

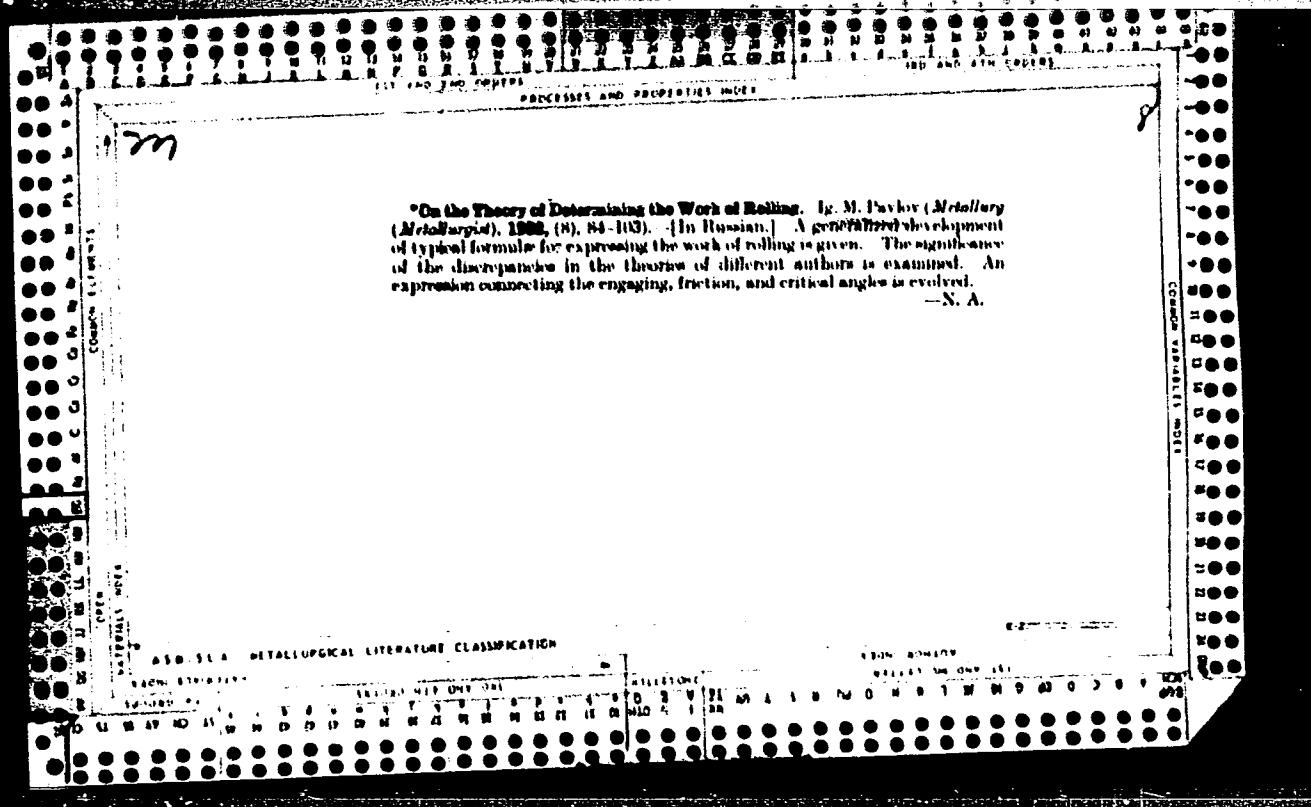
PAVLOV, I.I.

Zashchita samoletnykh elektricheskikh ustavov plavkimi predokhraniteliami.
(TSAGI. Trudy, 1940, no. 483)

Title tr.: Protection of aircraft electric wiring with melting fuses.

NCF

SD: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955



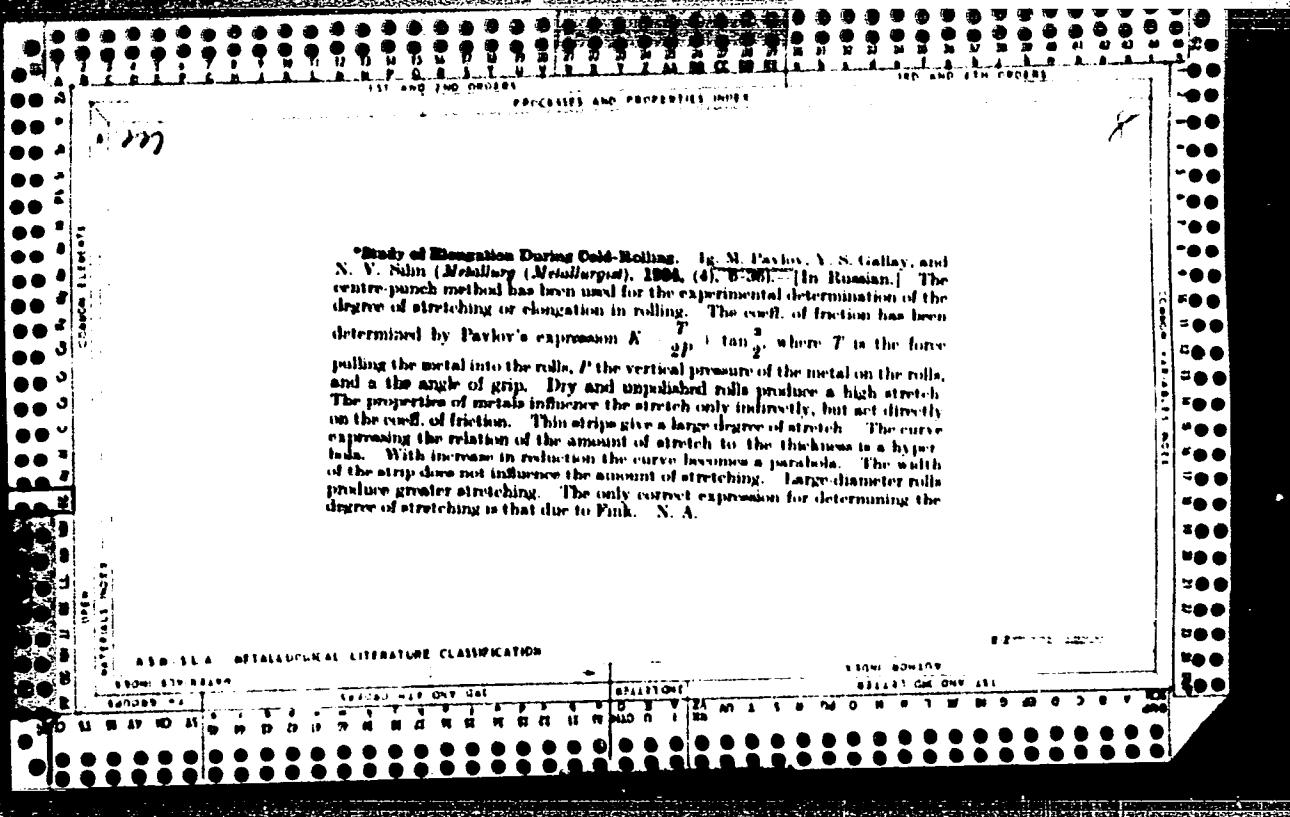
PAVLOV, Igor' Mikhaylovich.

Theory of metal rolling. Leningrad, 1934. (Mic 52-198) Collection of the original is determined from the film: 365 p.

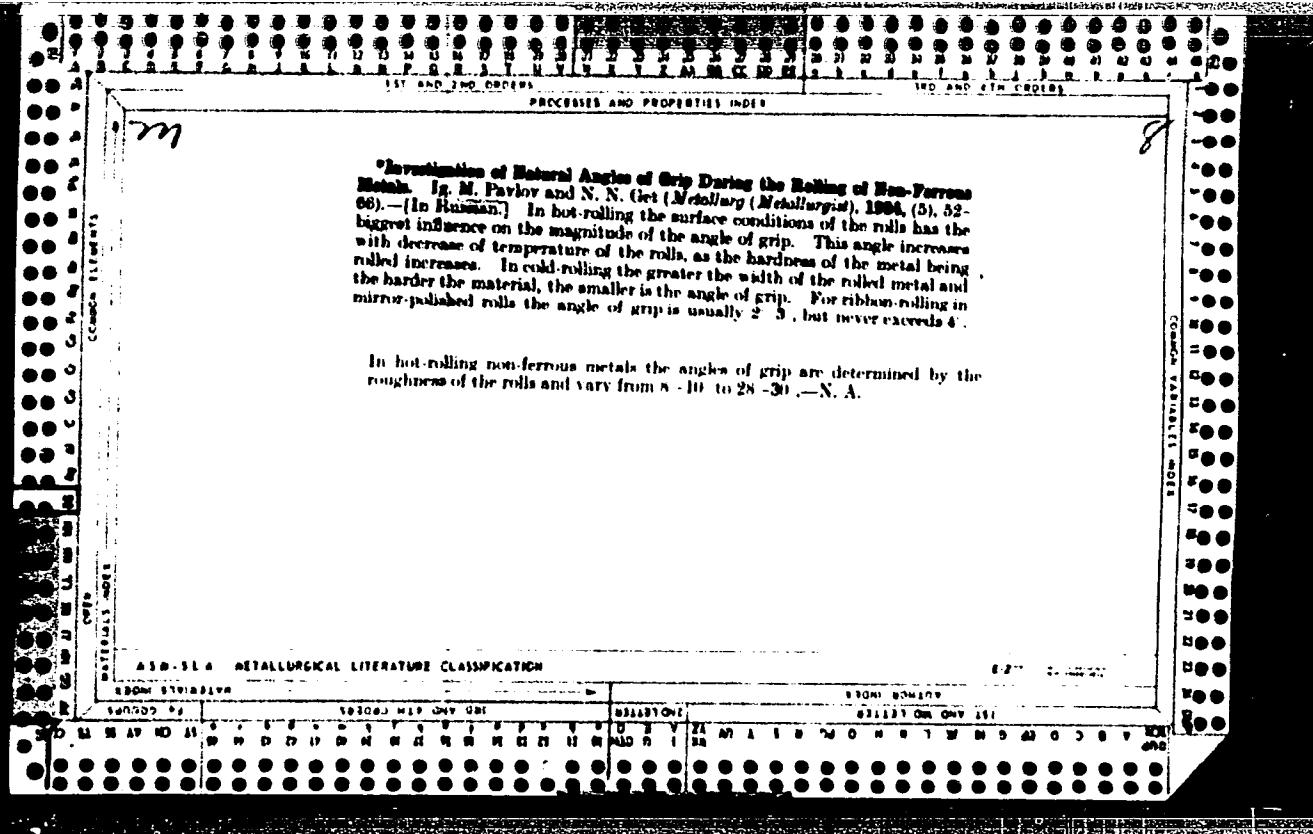
Microfilm TS-3

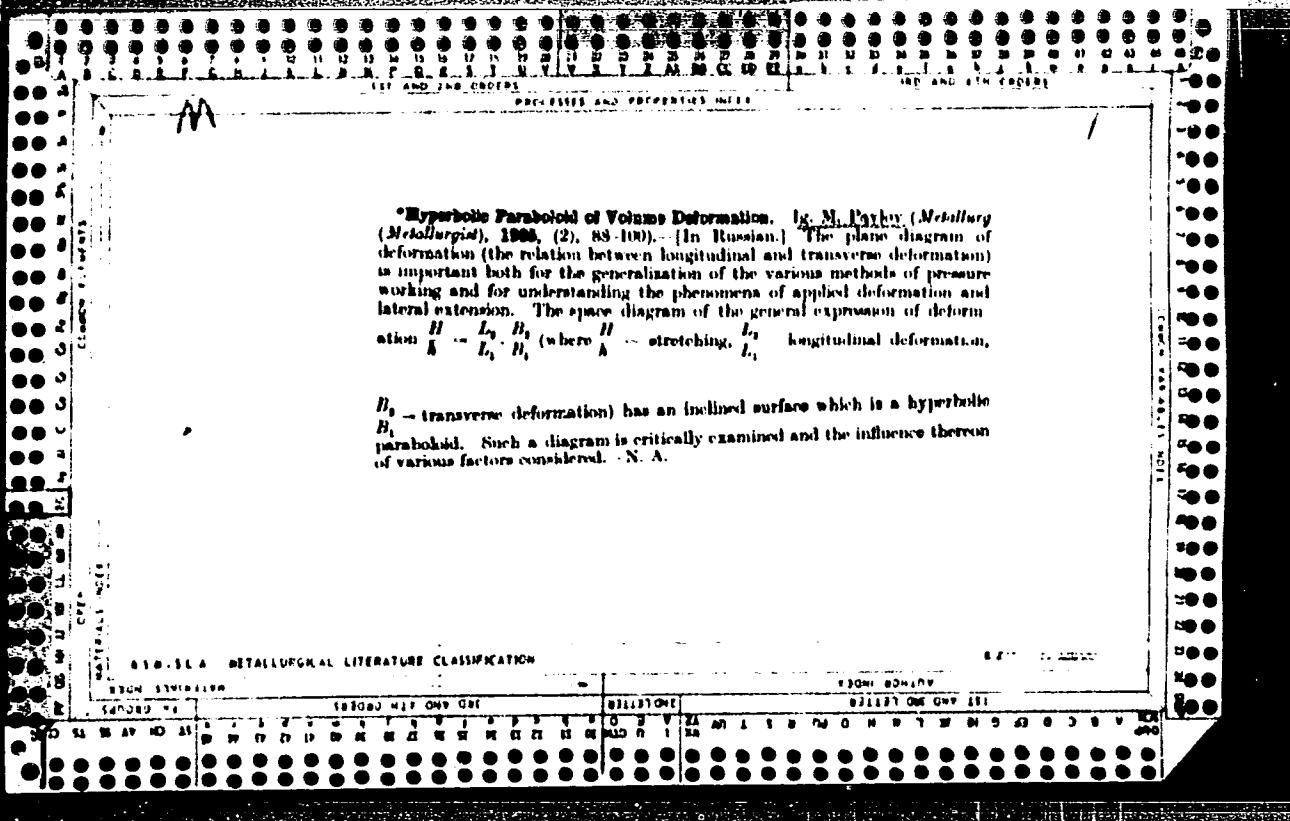
Pavlov, I. M.

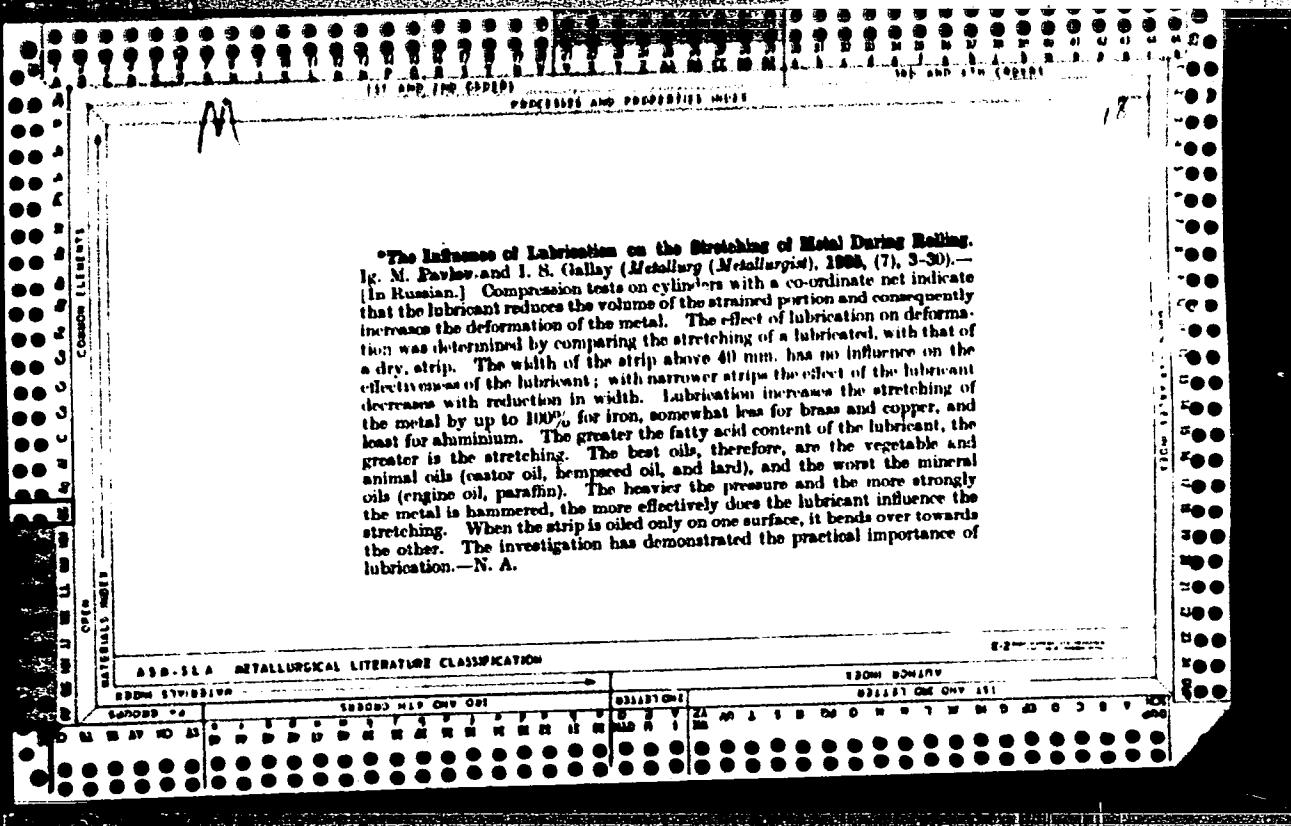
"Teoriya Prokatka", Leningrad, 1934, pp 121-125.

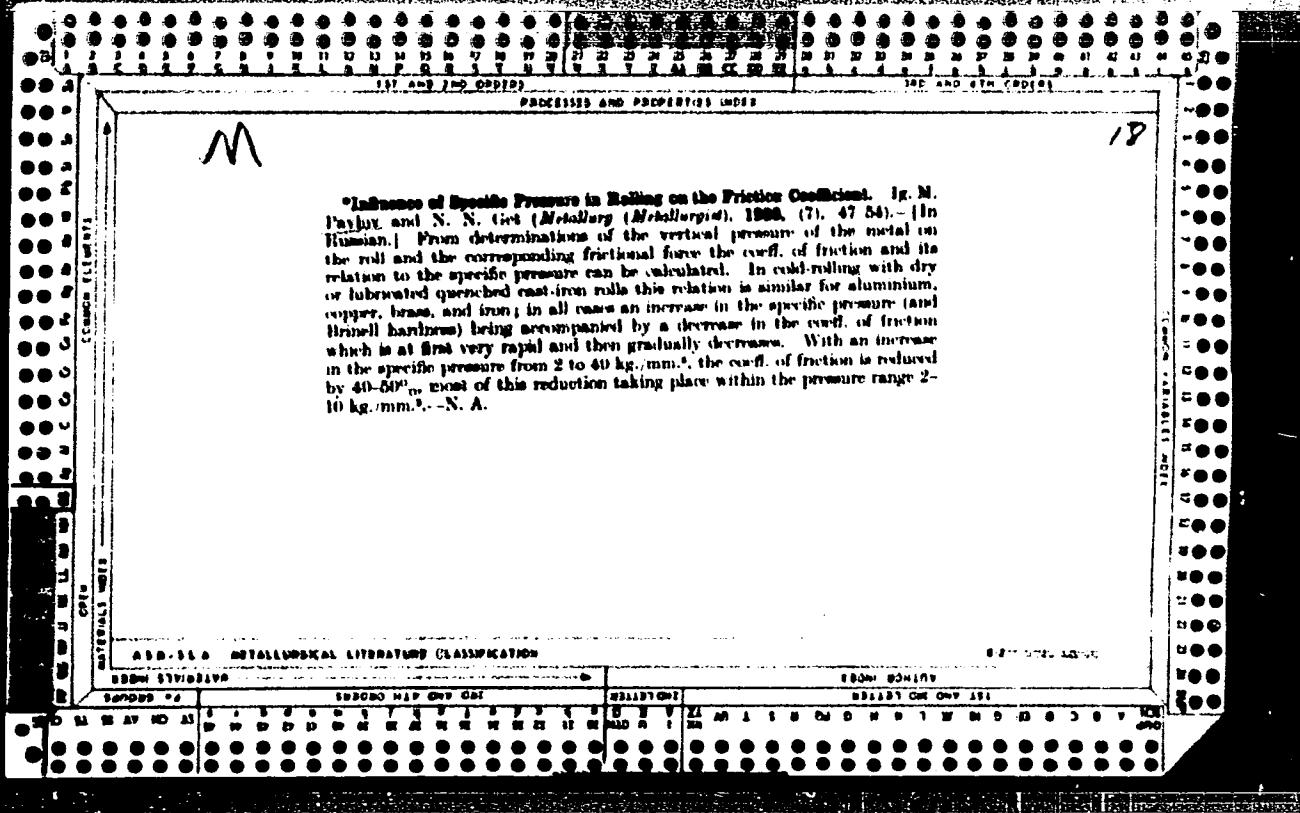


***Study of Elongation During Cold-Rolling.** By M. Pavlov, V. S. Gallay, and N. V. Sulin (*Metallurgy (Metallurgia)*, 1954, (4), 82-90). [In Russian.] The centre-punch method has been used for the experimental determination of the degree of stretching or elongation in rolling. The coeff. of friction has been determined by Pavlov's expression $K = \frac{T}{2P} + \tan \frac{\alpha}{2}$, where T is the force pulling the metal into the rolls, P the vertical pressure of the metal on the rolls, and α the angle of grip. Dry and unpolished rolls produce a high stretch. The properties of metals influence the stretch only indirectly, but act directly on the coeff. of friction. Thin strips give a large degree of stretch. The curve expressing the relation of the amount of stretch to the thickness is a hyperbola. With increase in reduction the curve becomes a parabola. The width of the strip does not influence the amount of stretching. Large-diameter rolls produce greater stretching. The only correct expression for determining the degree of stretching is that due to Pink. N. A.









*Influence of Specific Pressure in Rolling on the Friction Coefficient. Ig. N. Pavlyuk and N. N. Get (*Metallography* (*Metallofizika*), 1986, (7), 47-54). [In Russian.] From determinations of the vertical pressure of the metal on the roll and the corresponding frictional force the coeff. of friction and its relation to the specific pressure can be calculated. In cold-rolling with dry or lubricated quenched cast-iron rolls this relation is similar for aluminium, copper, brass, and iron; in all cases an increase in the specific pressure (and Brinell hardness) being accompanied by a decrease in the coeff. of friction which is at first very rapid and then gradually decreases. With an increase in the specific pressure from 2 to 40 kg./mm.², the coeff. of friction is reduced by 40-50%, most of this reduction taking place within the pressure range 2-10 kg./mm.². -N. A.

Recrystallization of steel during forging. I. M. Pavlov,
L. S. Gel'derman and A. I. Zhukova. *Metalurgia* 11, No.
12, 3-14 (1959).—Specimens of medium-C steel 20 mm
in diam. and 30 mm. high were deformed 4.6-80% at
115° by a single blow. Deformation was measured
by the change in pitch of special threads cut in the speci-
men. The max. grain size was found near the ends of the
specimen where the deformation was a min. A deforma-
tion of 20% is sufficient to procure the min. grain size ob-
tainable

H. W. Rathmann

ASB-LSA METALLURGICAL LITERATURE CLASSIFICATION

